

### **GENERAL NOTES**

- 1. All finishes shall comply with and be installed in accordance with all applicable local codes and ordinances.
- Contractor shall submit written certification to the Interior Designer and the Building Department that the carpet and wallcovering classification is in compliance with all applicable local codes and ordinances.
- 3. Finish drawings supersede architectural drawings for finish materials, colors and locations only.
- 4. Finish samples shall be submitted to interior designer for approval before purchasing and installation.
- 5. Contractor to install temporary finishes in areas turned over to Owner where permanent finishes cannot be installed due to sequencing of work.

- Flooring contractor is to field verify all existing conditions and notify designer of any
- General contractor is to prep walls as necessary for new base. Base shall appear smooth and flat after installation.
- 3. Provide new base and floorcovering as specified throughout. Flooring contractor to prep floors
- 4. General Contractor to provide temporary protection on all new flooring.
- 5. The flooring contractor shall submit a seaming diagram showing all seams and dimensions, etc. and welding rod color samples for review and approval by the designer.
- 6. Flooring contractor to clear caulk at top of metal cap on integral base.
- 7. Flooring contractor to clear caulk at all door frames where new resilient flooring has been installed within project limit.
- 8. Install resilient flooring per manufacturer's recommendations. Existing floor to be properly cleaned and prepared. Skim coat with ardex to produce a smooth and flat surface. Use epoxy adhesive at exterior entrances, 36" minimum. Clear caulk to be used at the thresholds.
- 9. All flooring to run continuous under all millwork, in toe spaces, and in all alcoves.
- 10. Flooring contractor to clear caulk at all door frames where new resilient flooring has been installed within project limit.
- 11. The carpet contractor shall prep floor as necessary to ensure that the top surface of all adjacent carpets are to be flush regardless of pile height.
- 12. Transition and reducing strips are to be installed at all changes in floor material and/or elevation that occurs in areas to be newly finished. Verify with designer each condition and type of transition and/or reducing strip to be used prior to installation. Grind or float floor as required for smooth/flush transition between material changes. Contractor to verify in field exact location of new transition strip. Transition to be installed at center of door in the closed position.
- 13. Existing clean out cover plates are to remain and be cleaned. Vinyl tile is to be cut around clean out with silicone to finish the edges. Carpet is to be cut around clean out with cover plate covering raw edges. Adjust height of clean out to provide smooth transition.

- 1. Prep walls for new finishes. Patch and repair walls to create a smooth uniform finish. Where wall covering is being removed, wall finish to be equivalent to finish level v.
- 2. Painting contractor to apply at least two coats of paint. Each coat to be equal to 1.6 mil. Apply more if necessary to cover existing color.
- Painting contractor shall paint all misc. metal items that have previously been painted such as electrical panel covers, fire hose cabinet, etc. to match adjacent wall color. Where misc. metal items have original factory finish, verify intended finish with designer.
- 4. Painting contractor to paint all existing and new ceiling and wall mounted electrical wire mold and conduit to match adjacent wall color regardless of existing finish.
- 5. All existing grills in doors and walls that are to remain shall be wire brush cleaned and all paint drips to be sanded for a smooth finish. All grills to be painted.
- 6. Painting contractor to submit samples of stained crown moulding, chairrail, base and handrails
- 7. All existing/relocated wood doors shall be touched up and sanded as necessary for a smooth
- 8. All new wood doors to be stained with a factory finish to match existing stained wood doors. contractor to submit a range of samples to designer for approval. See Door Stain; ST-1.
- 9. Painting contractor to provide attic stock of each paint/stain (1 gallon each). label each can with project name, room location, color name, color number and finish type. attic stock to be delivered to owner.
- 10. Wallcovering contractor to provide attic stock of each wall- covering (15%). location and manufacturer's information labeled on each roll, attic stock to be delivered to owner.

### MATERIAL LEGEND

# FINISH CARPENTRY 06 20 00

Majestic/ Pattern No.: WE027T/ Finish: Texture Finish High Pressure Decorative Laminate/ Manufacturer: Formica (or Equal)/ Color: Cognac

High Pressure Decorative Laminate/ Manufacturer: Lab Designs (or Equal)/ Color:

- Maple/ Pattern No.: 7738/ Finish: Matte
- Door Stain/ Color: To match VA standard oak stain/ Finish: To match VA standard Finish/ Note: Submit sample for approval./ Note: All wood doors to be stained ST-1.
- Wood Veneer/ Species: See Architectural Specifications/ Finish: Color To Match OFS, Formal Mahogany on Cherry/ Note: See Architectural Elevations and Details/ Note: submit sample for approval.

### CERAMIC TILING 09 30 13

- MTS-1 Metal Transition Strip/ Manufacturer: Schluter (or Equal)/ Style: Schiene AE100 (3/8")/ Finish: Satin AE Anodized Aluminum/ Note: Locations noted on 1-IF1 Partial Basement Floor Finish Plan
- Metal Transition Strip/ Manufacturer: Schluter (or Equal)/ Style: Reno-V AE100 (3/8")/ Finish: Satin AE Anodized Aluminum/ Note: Locations noted on 1-IF1 Partial Basement Floor Finish Plan
- Metal Transition Strip/ Manufacturer: Schluter (or Equal)/ Style: QUADEC/ Finish: Satin AE Anodized Aluminum/ Note: Install at all outside corners of porcelain wall tile and mosaic tile.
- Porcelain Tile/ Distributor: Virginia Tile Company (or Equal)/ Manufacturer: Ceramiche Caesar/ Style: Roxstones/ Color: Goldenstone/ Sizes: 11 13/16"x23 5/8", 7 7/8"x23 5/8", 5 7/8"x5 7/8"/ Grout: Manufacturer: Bostik/ Product: TruColor/ Color: Alabaster
- H189/ Joint Width: 1/8" MAX Porcelain Tile/ Distributor: Virginia Tile Company (or Equal)/ Manufacturer: Ceramiche Caesar/ Style: Roxstones/ Color: Silvergray/ Size: 11 13/16"x23 5/8", 7 7/8"x23 5/8", 5 7/8"x5 7/8"/ Grout: Manufacturer: Bostik/ Product: TruColor/ Color: White H152/ Joint Width: 1/8" MAX
- Porcelain Tile, Accent/ Distributor: Daltile/ Manufacturer: Terra Green Ceramics (or Equal)/ Style: Optimus Reflections/ Color: Ecru/ Size: 5/8" x 3" Linear Mosaics/ Grout: Manufacturer: Bostik/ Product: TruColor/ Color: Alabaster H189
- Porcelain Tile, Accent/ Distributor: Daltile/ Manufacturer: Terra Green Ceramics (or Equal)/ Style: Optimus Reflections/ Color: Bianco Mix/ Size: 5/8" x 3" Linear Mosaics/ Grout: Manufacturer: Bostik/ Product: TruColor/ Color: White H152
- Porcelain Tile/ Dist.: Stoneworks, LTD/ Manufacturer: Stonepeak (or Equal)/ Style: Limestone Collection/ Color: Walnut USH2424003/ Finish: Honed/ Size: 24" x 24" x 3/8"/ Grout: Manufacturer: Star Quartz, Quartz Lock / Color: Hemp 283/ Note: grout joints to be 1/8" maximum/ Note: Contractor to patch to match adjacent finishes. Verify product is an exact match.

### ACOUSTICAL CEILINGS 09 51 00

- Acoustic Ceiling Tile/ Manufacturer: Armstrong (or Equal)/ Style: Optima, Tegular/ Size: 2' x 2'/ Suspension System: Manufacturer: Armstrong/ Style: Suprafine XL
- Acoustic Ceiling Tile/ Manufacturer: Ceiling Plus (or Equal)/ Style: Curved Perforated Metal Ceiling/ Size: As indicated; Butt Joint Panel/ Finish: .040 Clear Anodized Aluminum/ Note: Provide custom edge pieces to coordinate with architectural details/ Note: Radius is 22'-8"
- Acoustic Ceiling Tile/ Manufacturer: Armstrong (or Equal)/ Style: Optima, Tegular/ Size: 6" x 48" and 24" x 48"/ Suspension System: Manufacturer: Armstrong/ Style: Techzone, Suprafine XL Square Tegular/ Size: 9/16"

# RESILIENT BASE AND ACCESSORIES 09 65 13

F.216.752.3833

- Resilient Base/ Manufacturer: Johnsonite (or Equal)/ Style: Perceptions Straight Base/ Profile: Recess/ Material: Rubber/ Color: Wetlands 150/ Size: 4" H x 120' Coil/ Thickness: 1/8" Gauge
- Resilient Base/ Manufacturer: Johnsonite (or Equal)/ Style: Perceptions Cove Base/ Profile: Recess/ Material: Rubber/ Color: Wetlands 150/ Size: 4" H x 120' Coil/ Thickness: 1/8" Gauge
- Resilient Base/ Manufacturer: Johnsonite (or Equal)/ Style: Perceptions Straight Base/ Profile: Recess/ Material: Rubber/ Color: Vaporize 282/ Size: 4" H x 120' Coil/ Thickness: 1/8" Gauge
- Resilient Base/ Manufacturer: Johnsonite (or Equal)/ Style: To Match Existing/ Material: Vinyl/ Color: To Match Existing/ Size: To Match Existing/ Thickness: 1/8"
- Resilient Transition Strip/ Manufacturer: Johnsonite (or Equal)/ Model: Adaptor CTA-150-A/ Color: Wetlands 150/ Note: Locations noted on 1-IF1 Partial Basement Floor Finish Plan
- Resilient Transition Strip/ Manufacturer: Johnsonite (or Equal)/ Model: T-Moulding: Verify flooring transition height to provide appropriate model no./ Color: TBD/ Note:

Locations noted on 1-IF1 Partial Basement Floor Finish Plan

Resilient Transition Strip/ Manufacturer: Johnsonite (or Equal)/ Model: Adaptor CTA-76-A/ Color: Cinnamon/ Note: Locations noted on 1-IF1 Partial Basement Floor

### RESILIENT SHEET FLOORING 09 65 13

- Integral Base/ Size: 4" High/ Note: Integral base to match flooring specified. Floor pattern to continue up wall. Finish w/ metal cap.
- Resilient Sheet Flooring/ Manufacturer: Teknoflor (or Equal)/ Style: Tuf Stuf, Classic Cut/ Color: Candied Walnut/ Product No.: CC-43104 Size: 6' Wide Roll Goods/ Thickness: 1/8" Gauge/ Note: Install with matching weld rod.
- Resilient Sheet Flooring/ Manufacturer: Teknoflor (or Equal)/ Style: Tuf Stuf, Classic Cut/ Color: Chopsticks/ Product No.: CC-43103/ Size: 6' Wide Roll Goods/ Thickness: 1/8" Gauge/ Note: Install with matching weld rod.
- Resilient Sheet Flooring/ Manufacturer: Teknoflor (or Equal)/ Style: Tuf Stuf, Classic Cut/ Color: Split Pea Soup/ Product No.: CC-43114/ Size: 6' Wide Roll Goods/ Thickness: 1/8" Gauge/ Note: Install with matching weld rod.

Resilient Sheet Flooring/ Manufacturer: Teknoflor (or Equal)/ Style: Tuf Stuf, Classic

- Cut/ Color: Linen Suit/ Product No.: CC-43109/ Size: 6' Wide Roll Goods/ Thickness: 1/8" Gauge/ Note: Install with matching weld rod.
- Resilient Sheet Flooring/ Manufacturer: Teknoflor (or Equal)/ Style: Tuf Stuf, Classic Cut/ Color: Smokin' Hot/ Product No.: CC-43110/ Size: 6' Wide Roll Goods/ Thickness: 1/8" Gauge/ Note: Install with matching weld rod.

### RESILIENT TILE FLOORING 09 65 19

**CARPETING 09 68 13** 

PORTLAND CEMENT TERRAZZO FLOORING 09 66 13

Polymer/ Installation Method: Vertical Ashlar

Polymer/ Installation Method: Monolithic

Quarry 6619/ Color: W94/ Width: 52" Paperbacked

Strie 6423/ Color: F131/ Width: 52" Paperbacked

Installation Method: Monolithic

POLYPROPYLENE FABRIC WALL COVERINGS 09 72 00

LVP-1 Luxury Vinyl Plank/ Manufacturer: Mannington (or Equal)/ Style: Nature's Paths/ Color: Northern Maple Espresso 12121/ Size: 4" x 36"

10102, 60% Persian Creme #1, 20% Persian Creme #0, 20% Mother of Pearl #2

Terrazzo Flooring/ Manufacturer: YTT, Inc. (or Equal)/ Color: Antique White Matrix,

Carpet, Modular/ Manufacturer: Mannington (or Equal)/ Style: Circ/ Color: Peridot

Adventure 4210/ Size: 24" x 24"/ Backing: Infinity Modular Reinforced Composite

Carpet, Modular/ Manufacturer: Mannington (or Equal)/ Style: Montage/ Color: Peridot

42214/ Size: 24" x 24"/ Backing: Infinity Modular Reinforced Composite Closed Cell

Carpet, Modular/ Manufacturer: Atlas (or Equal)/ Style: Satara/ Color: Spring Whisper ST21/ Size: 50.0 CM x 50.0 CM/ Backing: Perma-tile Vinyl Backing System/

Wallcovering - High Performance/ Manufacturer: Carnegie, Xorel (or Equal)/ Style:

Wallcovering - High Performance/ Manufacturer: Carnegie, Xorel (or Equal)/ Style:

Carpet, Modular/ Manufacturer: Mannington (or Equal)/ Style: Costilla/ Color:

Closed Cell Polymer/ Installation Method: Monolithic or Brick Ashlar

42214/ Size: 24" x 24"/ Backing: Infinity Modular Reinforced Composite Closed Cell

20% Persian Creme #0, 60% Persian Creme #0, 20% Mother of Pearl #2

Paint, Walls/ Manufacturer: Sherwin Williams (or Equal)/ Product: Harmony Zero VOC Rubber Tile/ Manufacturer: Nora (or Equal)/ Style: Noraplan Environcare/ Color: Satin Interior Acrylic Latex/ Color: Benjamin Moore, Lenox Tan HC-44/ Finish: Eggshell

#### Wood 2785/ Size: 18 x 18, 2MM Thick Paint, Walls/ Manufacturer: Sherwin Williams (or Equal)/ Product: Harmony Zero VOC Interior Acrylic Latex/ Color: Benjamin Moore, Mosaic Tile 1517/ Finish: Eggshell

Paint, Walls/ Manufacturer: Sherwin Williams (or Equal)/ Product: Harmony Zero VOC Interior Acrylic Latex/ Color: Benjamin Moore, Pale Almond OC-2/ Finish: Eggshell Terrazzo Flooring/ Manufacturer: YTT, Inc. (or Equal)/ Color: Mesa Verde Tan T&M

QUARTZ SURFACES 09 75 20

Edge Profile: Eased Edge

Edge Profile: Eased Edge

Edge Profile: Eased Edge

frame to be split to match wall color within room.

Paint, Walls/ Manufacturer: Sherwin Williams (or Equal)/ Product: Harmony Zero VOC Interior Acrylic Latex/ Color: Benjamin Moore, Danville Tan HC-91/ Finish: Eggshell

Interior Acrylic Latex/ Color: Urban Putty SW7532/ Finish: Eggshell

Interior Acrylic Latex/ Color: Retreat SW6207/ Finish: Eggshell

- Paint, Walls/ Manufacturer: Sherwin Williams (or Equal)/ Product: Harmony Zero VOC
- Interior Acrylic Latex/ Color: Benjamin Moore, Tyler Taupe HC-43/ Finish: Eggshell

Quartz Surface Base/ Manufacturer: Zodiaq (or Equal)/ Color: Storm Grey/ Finish:

Quartz Surface/ Manufacturer: Silestone (or Equal)/ Color: Seleno/ Finish: Polished/

Quartz Surface/ Manufacturer: Silestone (or Equal)/ Color: Bamboo/ Finish: Polished/

Quartz Surface/ Manufacturer: Cambria (or Equal)/ Color: Darlington/ Finish: Polished/

Quartz Surface Base/ Manufacturer: Zodiaq (or Equal)/ Color: Cygnus Pearl/ Finish:

High Performance Coating, Metal Trim and Doors / Manufacturer: Sherwin Williams

(or Equal)/ Product: Pro Industrial Acrylic Coating/ Color: Door frame color to match

adjacent wall color./ Note: Where wall is painted different colors on either side, door

Paint, Walls/ Manufacturer: Sherwin Williams (or Equal)/ Product: Harmony Zero VOC

Paint, Walls/ Manufacturer: Sherwin Williams (or Equal)/ Product: Harmony Zero VOC

Polished/ Size: 6" x 3/4"/ Note: Install maximum lengths for base.

- Paint, Walls/ Manufacturer: Sherwin Williams (or Equal)/ Product: Harmony Zero VOC Interior Acrylic Latex/ Color: Benjamin Moore, Mystic Gold HC-37/ Finish: Eggshell
- Paint, Walls/ Manufacturer: Sherwin Williams (or Equal)/ Product: Harmony Zero VOC Interior Acrylic Latex/ Color: Comfort Gray SW6205/ Finish: Eggshell
- Paint, Walls/ Manufacturer: Sherwin Williams (or Equal)/ Product: Harmony Zero VOC Interior Acrylic Latex/ Color: Oakwood Manor 1095/ Finish: Eggshell
- Paint, Ceilings/ Manufacturer: Sherwin Williams (or Equal)/ Product: Harmony Zero
- VOC Interior Acrylic Latex/ Color: Extra White SW7006/ Finish: Eggshell Paint, Ceilings/ Manufacturer: Benjamin Moore (or Equal)/ Product: Aura/ Color:
- Barbados Sand 1094/ Finish: Flat
- Paint, Ceilings/ Manufacturer: Benjamin Moore (or Equal)/ Product: Aura/ Color: Lenox Tan HC-44/ Finish: Flat
- Paint, Match Existing/ Manufacturer: Sherwin Williams (or Equal)/ Product: Harmony Zero VOC Interior Acrylic Latex/ Color: To Match Existing/ Finish: To Match Existing

### WALL AND DOOR PROTECTION 10 26 00

- Corner Guard/ Manufacturer: Korogard (or Equal)/ Style: GS35 Stainless Steel Corner Guard/ Finish: #4 Satin/Height: Install from top of base 4'-0" AFF
- Corner Guard/ Manufacturer: Korogard (or Equal)/ Style: GS35 Stainless Steel Corner Guard/ Finish: #4 Satin/Height: Install from top of base to underside of ceiling.

Project Number

Dwg.

541-14-101

Handrail/ Manufacturer: Julius Blum and Co. (or Equal)/ Style: 1 ½" O.D. Stainless Steel Tube Rail / Color: #4 Circular Grain/ Note: Wall brackets to be part no. 275, stainless finish. Install brackets 4'-0" o.c.. handrail to return at all ends./ Note: See

architectural drawings for exact location of termination.

**FULLY SPRINKLERED** 

Bid Issue 01/17/14

**Date** 

Revisions:

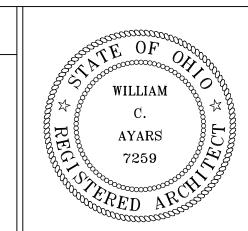
VA FORM 08-6231, OCT 1978

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Drawing Title

Approved: Project Director

**MATERIAL LEGEND AND NOTES EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY** 

**VAMC - WADE PARK** 

1-17-2014

Project Title

Drawing Number

JG

Office of Building Number **Facilities** Management

Veterans Affairs

# GENERAL NOTES

- 1. New construction has been designed to, and shall be constructed in accordance with the following building codes and standards:
- A. 2011 International Building Code (IBC 2011) ASCE/SEI 7-05, Minimum Design Loads for Buildings and Other Structures Unless explicitly modified in the Contract Drawings and Specifications, the Contractor
- shall comply with provisions of: ACI 318-08, Building Code Requirements for Structural Concrete ACI 530-08, Building Code Requirements for Masonry Structures
- ANSI/AISC 341-05, Seismic Provisions for Structural Steel Buildings ANSI/AISC 360-05 Specification for Structural Steel Buildings
- AWS D1.1-2006, Structural Welding Code Steel SDI Design Manual for Composite Decks, Form Decks and Roof Decks - No. 1

### DESIGN LOADS

#### Floor live load (unless otherwise noted) Procedure Rooms ---- 65 psf (1)

### (1) Includes 15 psf partition allowance, unreduced (IBC 1607.5)

# Earthquake design

Alterations are in accordance with ASCE 7, Appendix 11B.4. Proposed alterations comply with IBC requirements for new structures. Additionally, proposed alterations do not increase the seismic force in any existing structural element by more than 10 percent, nor do they decrease the design strength of any structural element to resist seismic forces by more than 10 percent. Therefore, further analysis and design of the existing structure for seismic force-resistance are not required

#### **DESIGN STRESSES**

Concrete (strength design) minimum compressive strength in 28 days: Interior slabs on grade and concrete on metal deck Structural lightweight concrete on metal deck	f'c = 4,000 psi
(120 pcf max. air dried)	$f_c = 3,500 \text{ psi}$
Reinforcing bars (ASTM A615, Grade 60)	$F_y = 60,000 \text{ psi}$
Welded wire reinforcement (ASTM A185)	$f_s = 30,000 \text{ psi}$
Structural steel W and S shapes	
(ASTM A992 or ASTM A572/50)	$F_y = 50,000 \text{ psi}$
Structural steel other shapes (ASTM A36)	$F_y = 36,000 \text{ psi}$
Metal decks	$f_s = 20,000 \text{ psi}$

- All new construction shall comply with the Contract Documents and the Building Code. Typical details and general notes apply to all parts of the work except where specifically detailed or unless otherwise noted The structural drawings illustrate structural members. Refer to architectural, mechanical, and electrical drawings for non-structural items which require special provisions during
- Drawings are not to be scaled. Refer to architectural plans for floor depressions, openings, slopes, drains, curbs, pads, embedded items, non-bearing partitions, etc. Refer to mechanical and electrical plans

the construction of the structural members.

- for sleeves, openings, and hangers for pipes, ducts, and equipment The Contractor shall verify and be responsible for all dimensions and conditions which impact the work. Field verify sizes, elevations, hole locations, etc., prior to fabrication. The Contractor shall carefully review the drawings to identify the scope of work required,
- visit the site to relate the scope of work to existing conditions and determine the extent to which those conditions and physical surroundings will impact the work. Existing conditions as shown on these plans are for reference only. The Contractor is required to field verify all existing conditions prior to construction.
- The Contractor shall resolve any conflicts on the drawings or in the specifications with the Architect/Engineer before proceeding with the work. Any deviation, modification, or substitution from the approved set of structural drawings shall be submitted to the Owner, Architect, and Engineer for review/approval prior to its
- use or inclusion on the shop drawings. The Contractor shall provide all necessary shores, braces, and guys required to support all loads to which the building structure and components, soils, other structures, and utilities may be subjected during construction. Shoring systems shall be designed, signed, and sealed by a professional engineer licensed in the jurisdiction where the
- project is located. The Contractor shall provide means, method, techniques, sequence, and procedure of construction as required.
- The Contractor shall protect all work, materials, and equipment from damage and shall provide proper storage facilities for materials and equipment during construction. Site visits performed by the Architect/Engineer do not include inspections of means and
- methods of construction performed by the Contractor. Structural observations performed by the Architect/Engineer during construction are not the continuous and special inspection services and do not waive the responsibility for the inspections required of the Building Department Inspector or the testing agency. Observations also do not guarantee the Contractor's performance and shall not be
- considered as supervision of construction. The Contractor shall review shop drawings for completeness and compliance with contract documents. The Contractor shall stamp shop drawings prior to submission to
- the Architect and Engineer. 17. Review of the shop drawings by the Architect's Engineers shall not be construed as an authorization to deviate from the Contract Documents.
- 18. Shop drawings will not be processed if they are incomplete, lack coordination with relevant portion of contract documents, lack calculations if required, or if deviations, modifications, and substitutions are indicated without prior written approval from the

### CONSTRUCTION PROCEDURE

Bid Issue

Revisions:

VA FORM 08-6231, OCT 1978

Architect/Engineer.

- All walls and all floor and roof members shall be securely shored and braced at all times during construction. No pipes or ducts shall be embedded into structural members unless so shown on the plans or approved by the Engineer.
- Beams and slabs under concrete walls terminating at a floor shall be fully shored during and after wall pour until concrete wall attains design strength.
- No structural elements are to be cut unless specifically approved by the Engineer.

### ROOF, FLOOR, OR WALL OPENINGS

Verify all dimensions and conditions on the job.

- The Contractor shall verify and coordinate the number, size, and location of all sleeves and openings required for mechanical or electrical items.
- Sleeves and openings shall be located in a manner that will maintain the structural integrity of the roof, floor, or wall system.

#### No structural elements are to be cut unless specifically approved by the Engineer. STRUCTURAL TESTING AND SPECIAL INSPECTIONS

Special structural testing and inspections are required. The Owner shall hire an approved independent testing agency. The agency shall be designated as the special inspector and shall provide structural testing and special inspections as required by the building code and as noted in the Contract Documents. Reports of inspection and testing shall be sent to the Architect, Engineer, Owner, Contractor, and Building Department. Structural testing and special inspection shall include:

- 1. Concrete: mix data, daily pour reports, cylinder tests, slump, entrained air tests, and
- temperature. See specifications for all testing and inspection requirements.
- Reinforcement: placement, type, size, and grade of steel. See specifications for all testing and inspection requirements. Structural steel: welding and bolting in the shop and field. See specifications for all testing and inspection requirements.

#### CONCRETE CONSTRUCTION

- All concrete construction shall be in accordance with the latest Building Code Requirements for Structural Concrete ACI 318 and ACI Detailing Manual, except that construction and removal of forms and reshoring shall be inspected by the Contractor's
- Reinforcing steel shall have the following minimum coverage. Place bars as near to the concrete surface as these minima permit wherever possible, unless noted otherwise:
- Slabs, joists: 3/4" (#11 and smaller) Furnish bar supports where necessary during construction.
- Provide pipe sleeves and inserts in concrete work where required. See architectural and mechanical drawings. Provide a minimum of #4 dowels at 12" on center connecting framed floors to concrete
- Welding of reinforcing bars (including tack welding) is not permitted without permission of Engineer in writing. Where and when permitted, welded rebars shall comply with ASTM A706 (Fy=60 ksi) and welding shall conform to AWS D1.4. Welding shall be performed by certified welders.
- Slab thickness indicated over steel form deck includes form depth. Provide form deck continuous over at least three supports and weld to each support at minimum 12" intervals. Use decking that will safely support all construction loads, including wet weight of concrete. Limit deflection of decking to 1/240 of span when loaded with the
- wet weight of concrete and construction loads. Horizontal floors supported by deflecting structural members (steel joists, unshored steel beams, etc.) shall be finished level. The slab thickness noted is minimum. Add concrete as necessary to overcome member deflections. Shored construction shall be
- finished to a constant depth. Drawings show typical reinforcing conditions. Contractor shall prepare detailed placement drawings of all conditions showing quantity, spacing, sizes, clearances, laps, intersections, and coverage required by the structural details, applicable code, and trade standards. Contractor shall notify reinforcing inspector of any adjustments from typical conditions which are proposed in placement drawings to facilitate field placement of
- reinforcing steel and concrete. 10. Bar bends shall be made cold. Bars shall not be bent after any portion of the bar is
- encased in concrete. 11. Splices (grade 60 deformed bars): Lap all compression splices 30 bar diameters of the larger bar. Lap all tension splices in accordance with the following tables. Provide Class B
- Tension Lap Splices unless otherwise noted. Increase tension or compression splice lengths by the following factors. Increases are Cumulative:
- 1) Lightweight concrete: 1.3 D. Top bars are defined as horizontal bars with more than 12" of fresh concrete
- Class B Tension Lap Splice f'c = 4000 psi f'c = 5000 psi Top Other Top Other Top Other 19" 29" 33" 25" 29"
- 47" 36" 31" 36" 28" 41" 37" 34" 43" 49" 43" 63" 54" 63" 49" 56" 72" 62" 72" 70" 81" 63" 105" 81"

102"

113"

79"

92"

102"

		Class A Development Length, ld					
	Bar Size	f'c = 3000 psi		f'c = 4000 psi		f'c = 5000 psi	
		Тор	Other	Тор	Other	Тор	Other
	#3	22"	17"	19"	15"	17"	13"
	#4	29"	22"	25"	19"	23"	17"
	#5	36"	28"	31"	24"	28"	22"
	#6	43"	33"	37"	29"	34"	26"
	#7	63"	48"	54"	42"	49"	38"
	#8	72"	55"	62"	48"	56"	43"
	#9	81"	62"	70"	54"	63"	48"
	#10	91"	70"	79"	61"	70"	54"
	#11	101"	78"	87"	67"	78"	60"

### MASONRY CONSTRUCTION

118"

91"

101"

- Masonry walls shown on structural drawings have been designed in accordance with Building Code Requirements for Masonry Structures (ACI 530/ASCE 5/TMS 402). Masonry walls shown on structural drawings shall be constructed in accordance with Specifications for Masonry Structures (ACI 530.1/ASCE 6 /TMS 602) and the project specifications. If there are any conflicts between the two, the more restrictive requirement shall be applicable.
- Determine compressive strength of masonry (fm) by the unit strength method (Section 1.4,B.2 of ACI 530.1/ASCE 6/TMS 602).
- A. Mortar properties shall be determined by tests per ASTM C780 and mortar shall be strength tested in accordance with ASTM C39 (3" diameter x 6" long cylinders). The strength of grout shall be determined by tests in accordance with ASTM
- 4. Intersecting bearing walls shall be anchored by one of the following methods (does not apply at control joints or where non-load-bearing partitions abut bearing walls): A. Fifty percent of the units at the intersection shall be laid in an overlapping masonry bonding pattern, with alternate units having a bearing of not less than 3"
- on the unit below. Walls shall be tied by galvanized steel straps 1 1/2" x 1/4" x 24" with 2" bend at 90° each end. Grout straps solid into cores of block at 24" maximum vertical
- spacing. Corners of bearing walls shall be built in running bond. Provide a minimum of 24" depth of solid masonry under the bearing ends of all beams,
- beam lintels, and LH and DLH Series Joists; 16" depth of solid masonry under the bearing ends of all K Series joists and slabs; and 8" of solid masonry under the bearing ends of loose lintels.
- Provide horizontal joint reinforcement per ASTM A82, galvanized, at 16" on center vertically. See specifications. Unless otherwise noted, provide a galvanized ladder type joint reinforcement.
- Welding of reinforcing bars (including tack welding) is not permitted without permission of Engineer in writing. Provide shop drawings which indicate size, spacing, bending details, and type of all
- reinforcing bars placed in masonry walls. 10. Provide dowels from supporting member (footing, beam, or slab) for all reinforced walls same size, location, and spacing as wall reinforcing. 11. Wall reinforcing shall be held in position during grouting.
- 12. For bars at face of wall, maintain 1/2" clearance from inside face of CMU to reinforcing. 13. Splices (grade 60 deformed bars, f'm=1,500psi): A. Lap all splices in accordance with the following table.
  - Increase splice length by 50% for epoxy-coated reinforcing.
- Splice lengths greater than 60" require high lift grouting. The Contractor, at his option, may use open-ended masonry units or mechanical splices for ease of D. Mechanical splices shall develop 125% of the tensile capacity of the bar and are
- required for #10 bars or larger.

Bar		Reinforcing at Face				
Size	6"	8"	10"	12"	16"	of Wall
#3	18"	18"	18"	18"	18"	18"
#4	24"	24"	24"	24"	24"	26"
#5	32"	30"	30"	30"	30"	40"
#6	61"	43"	40"	40"	40"	54"
#7		60"	46"	46"	46"	63"
#8		92"	71"	61"	61"	72"
#9			82"	74"	69"	82"

#### STEEL CONSTRUCTION

- 1. Steel detailing, fabrication, and erection shall conform to the AISC Specification for Structural Steel Buildings and Code of Standard Practice, and the AWS Structural
- Stresses occurring during fabrication, shipment, and erection shall be temporary and not excessive. Stresses at all times shall be less than design and allowable stresses. The full design and load-carrying capacity of the steel work shall not be impaired due to fabrication, shipment, or erection procedures. Throughout the complete process, the stability of all individual members and assembles shall be maintained. The Contractor shall be responsible for the control of all erection procedures and
- sequences with relation to temperature differentials and weld shrinkage. 4. All additional steel required for erection purposes shall be provided at no additional cost and shall be removed unless approved by the Owner in writing. Shop drawings are required and shall note type of electrodes, size of all welds, and type
- and size of all bolts. Shop drawings shall be prepared under the supervision of a professional engineer licensed in the jurisdiction where the project is located. 6. Painting, unless otherwise noted: Provide one shop coat and one field coat of rust-inhibitive paint.

Do not paint beams that are encased in concrete or to receive sprayed-on

Omit paint at slip critical connections and areas to be welded. See all contract drawings for miscellaneous steel requirements.

All shop and field welding shall be performed by a recently certified welder.

11. Provide fills at splices of parts differing by more than 1/8" in thickness.

9. All welding and high strength bolting must be inspected by a qualified testing laboratory. Laboratory shall be approved by the Architect and/or Engineer. 10. Do not weld to existing steel without written approval from the Engineer.

# STEEL DECK

- The metal decking shall be of the type and gauge as indicated on the drawings. Decking and all accessories shall be formed from steel sheets conforming to ASTM A653. The steel shall be zinc coated conforming to ASTM A924, Class G60 as required in the
- specifications. Deck units shall be continuous over three or more spans where possible. 2. Diaphragm action shall be provided for in all areas with welding pattern in accordance with manufacturer's recommendations.
- All welding of metal deck shall be in accordance with AWS D1.3. Hangers supported by metal decking with structural concrete fill shall be installed using ICBO-approved anchorage systems. Such hangers shall be used to support duct work 54" x 16" maximum, 4" diameter pipe maximum, or ceilings. Hangers must be two flutes apart on same deck span. Larger ductwork and piping shall be supported by structural beams or columns (see mechanical drawings).
- All metal deck shall be welded to structural steel by qualified welders experienced in welding light-gauge steel, and using prequalified procedures. The erector shall establish a welding procedure for the arc spot welding weld of the steel decking to the structural steel of a particular gauge used. Prior to the start of erection of steel deck, each welder shall be qualified using this procedure and witnessed by the Owner's testing agency. 6. Steel deck and framing will deflect during placement of concrete. These deflections will
- order to bring the slab within tolerances of a horizontal plane. The Contractor shall provide the excess concrete at no cost to the Owner. Section properties shall be determined according to the Light Gauge Steel Institute.

require placement of concrete in excess of the amount based on nominal dimensions in

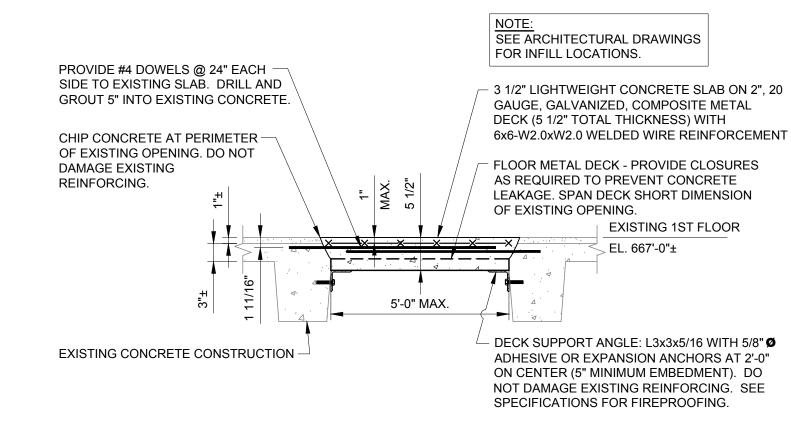
8. Headed studs used as shear connectors shall be 3/4" diameter studs unless otherwise Comply with Steel Deck Institute Specifications for deck attachment and connectors. 10. Steel deck shall be erected and fastened in accordance with the manufacturer's

### ADHESIVE AND EXPANSION ANCHORS

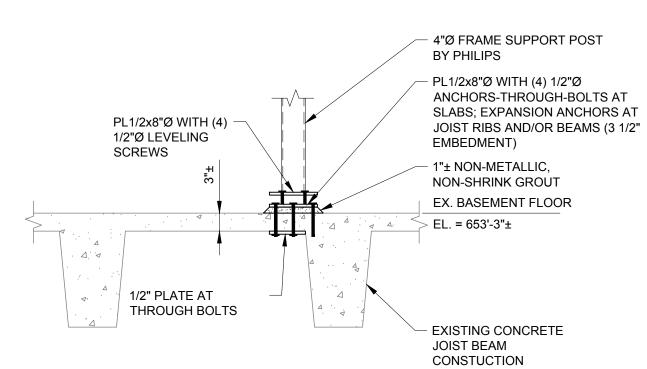
specifications and erection layouts.

vicinity of the anchors prior to drilling.

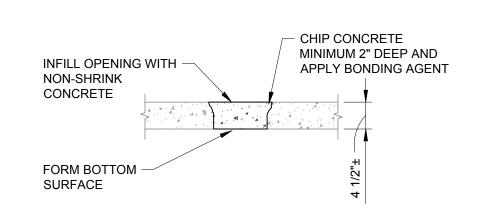
- For connections to existing concrete or solid masonry, use torque controlled expansion anchors or adhesive anchors with diameter and embedment length as noted on the drawings. Submit product information for approval prior to use. For connections to existing hollow masonry or brick, use sleeve anchors or adhesiv
- anchors with screen tube with diameter and embedment length as noted on the drawings. Submit product information for approval prior to use.
- 3. Locate existing reinforcing by means of a rebar detector prior to drilling. Adjust the connection as required to avoid damaging any reinforcing. Notify the Architect or Engineer if the existing concrete or masonry is cracked in the



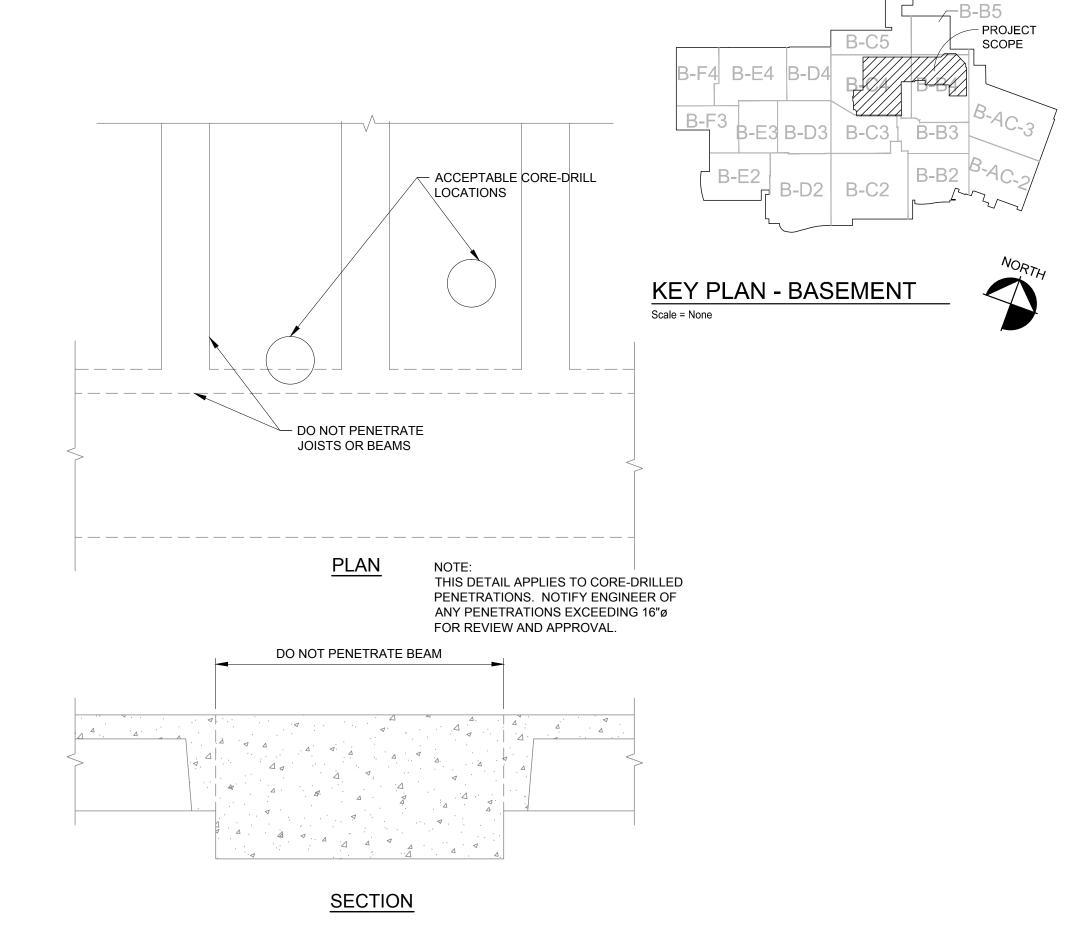
# CONCRETE INFILL AT OPENINGS IN CAST-IN-PLACE SLABS



# FRAME BASEPLATE AT SKYLIGHT IMAGING EQUIPMENT



CONCRETE INFILL AT



**CORE-DRILL PENETRATIONS THROUGH EXISTING CONCRETE FLOOR STRUCTURE** 

THE ORIGINAL CONSTRUCTION DOCUMENTS HAVE BEEN REVIEWED TO DETERMINE THE ADEQUACY OF THE EXISTING STRUCTURE TO SAFELY SUPPORT THE PROPOSED NUCLEAR MEDICINE EQUIPMENT. THE REVIEW WAS BASED ON THE FOLLOWING EQUIPMENT WEIGHTS. BASED ON THIS INFORMATION, IT WAS DETERMINED THAT THE EXISTING CONCRETE FLOOR STRUCTURE AT THE BASEMENT CAN SAFELY SUPPORT THE PROPOSED EQUIPMENT.

ON LET OUT ON THE THOI COLD EQUI MENT.				
ROOM	EPUIPMENT NAME	WEIGHT (LBS)		
B-C456	SKYLIGHT	5826		
B-C457	UNKNOWN	6000 (ASSUMED)		
B-C473	BRIGHTVIEW	3982		
B-C475	AXIS/IRIX	8610		
B-C476	BRIGHTVIEW	3982		
THE STRUCTURA	AL ENGINEED SHALL BE NOTH	EIED IE ANV OE THE		

THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IF ANY OF THE PROPOSED EQUIPMENT WEIGHTS AND/OR LOCATIONS CHANGE. ADDITIONALLY, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF THE ACTUAL WEIGHT OF THE EQUIPMENT IN ROOM B-C457 PRIOR TO INSTALLATION.

A BASE PLATE ANCHORING DETAIL HAS BEEN PROVIDED FOR THE SKYLIGHT IMAGING EQUIPMENT ON THIS DRAWING. SUFFICIENT INFORMATION TO DEVELOP ANCHORING DETAILS FOR THE OTHER PROPOSED EQUIPMENT WAS NOT AVAILABLE AT THE TIME THIS DRAWING WAS ISSUED. THE STRUCTURAL ENGINEER SHALL BE PROVIDED WITH SUCH INFORMATION PRIOR TO EQUIPMENT INSTALLATION. FUTURE MODIFICATIONS MAY BE NECESSARY BASED ON THE FINAL ANCHORING REQUIREMENTS.

# **CONSULTANTS:**

01/17/14

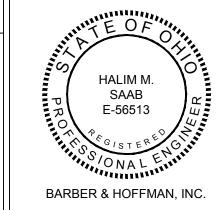
Date

FREDRICK, FREDRICK & HELLER ENGINEERS, INC. 672 EAST ROYALTON ROAD BROADVIEW HTS., OHIO 44147 TEL. (440) 546-9696

FAX: (440) 546-9699



Consulting Engineers



13212 Shaker Square Suite 204 Cleveland, Ohio 44120 P. 216.752.1800 F.216.752.3833

**ARCHITECT:** 

DESIGN AND CONSTRUCTION DOCUMENTS A NSTRUMENTS OF SERVICE ARE GIVEN IN ONFIDENCE AND REMAIN THE PROPERTY O FOR PURPOSES OTHER THAN THE SPECIFIC WITHOUT THE EXPRESSED WRITTEN CONSENT OF PERSPECTUS ARCHITECTURE.

ERSPECTUS ARCHITECTURE. THE USE OF THIS DESIGN AND THESE CONSTRUCTION DOCUMENTS PROJECT NAMED HEREIN IS STRICTLY PROHIBITED

**GENERAL NOTES AND DETAILS** Approved: Project Directo

Drawing Title

**RADIOLOGY** 

01-17-2014

Project Title Project Number 541-14-101 **EXPAND AND RENOVATE NUCLEAR MEDICINE AND Building Number** Drawing Number **VAMC - WADE PARK** 

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**1-S1** 

Dwg.

Office of

**Facilities** 

Management

Veterans Affairs